

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,364,876 B2
APPLICATION NO. : 10/644084
DATED : April 29, 2008
INVENTOR(S) : Takai et al.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

At column 6, line 10, delete "Functional" and insert therefor --Junctional--.

At column 11, line 7, delete "MADIP-M" and insert therefor --mADIP-M--.

At column 13, line 55, delete "acids" and insert therefor --acid-- and delete "the an" and insert therefor --an--.

At column 14, line 57, delete "Examples" and insert therefor --Example--.

At column 18, line 3, delete "ascites is" and insert therefor --ascites are--.

At column 19, line 15, delete "myocaroditis" and insert therefor --myocarditis--; and line 63, delete "myocaroditis" and insert therefor --myocarditis--.

At column 20, line 52, delete "DNAS" and insert therefor --DNAs--.

At column 25, line 34, delete "nectin-2 α -AC-L cells" and insert therefor --nectin-2 α - Δ C-L cells--.

At column 26, line 43, delete "MADIP" and insert therefor --mADIP--.

At column 28, line 50, delete "MBP-MADIP" and insert therefor --MBP-mADIP--.

At column 30, line 16, delete "j. Cell Biol." and insert therefor --J. Cell Biol.--; and lines 34-35, delete "nectin-2 α - α C-L cells" and insert therefor --nectin-2 α - Δ C-L cells--.

At column 31, line 2, delete "concentrated" and insert therefor --concentrate--.

At column 33, lines 41-42, delete "2 mM Ca" and insert therefor --2 mM Ca²⁺--.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

At column 35 through column 54, please delete the sequence listing and insert therefor the following sequence listing:

SEQUENCE LISTING

<110> EISAI CO., LTD.

<120> ADIP PROTEIN AND USE THEREOF

<130> 2144.0100000

<140> US 10/644,084

<141> 2003-08-20

<150> JP 2002-284263

<151> 2002-09-27

<160> 9

<170> PatentIn version 3.3

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<210> 1
<211> 2692
<212> DNA
<213> Mus musculus

<220>
<221> CDS
<222> (80)..(1927)
<223> /note="afadin-and alpha-actinin-binding protein"

<400> 1
cgtaggagag tgacaggagc tggtgtaagc gtcgcagcac tgagccgcct cctcaggtat 60
cctggctctg gaacttgct atg gga gat tgg atg act gtg aca gat cca gtt 112
Met Gly Asp Trp Met Thr Val Thr Asp Pro Val
1 5 10
ctg tgt aca gaa aac aaa aat ctc tct caa tat acc tca gaa aca aag 160
Leu Cys Thr Glu Asn Lys Asn Leu Ser Gln Tyr Thr Ser Glu Thr Lys
15 20 25
atg tct ccg tcc agt ttg tac tcc cag caa gtt ctg tgc tct tca gta 208
Met Ser Pro Ser Ser Leu Tyr Ser Gln Gln Val Leu Cys Ser Ser Val
30 35 40
cct tta tcc aaa aac gtg cat ggt gtt ttc ggt gtc ttc tgc aca gga 256
Pro Leu Ser Lys Asn Val His Gly Val Phe Gly Val Phe Cys Thr Gly
45 50 55

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gag aac att gaa caa agt att tcc tat ctt gat cag gag ctg acc acc	304
Glu Asn Ile Glu Gln Ser Ile Ser Tyr Leu Asp Gln Glu Leu Thr Thr	
60 65 70 75	
ttc ggg ttt cct tcc ttg tat gaa gaa tcc aaa agt aaa gag gca aag	352
Phe Gly Phe Pro Ser Leu Tyr Glu Glu Ser Lys Ser Lys Glu Ala Lys	
80 85 90	
aga gaa tta aat ata gtc gct gtt ctg aac tgt atg aac gag ctg ctc	400
Arg Glu Leu Asn Ile Val Ala Val Leu Asn Cys Met Asn Glu Leu Leu	
95 100 105	
gtg ctt cag cgg aag aac ctg ctg gcc cag gag agc gtg gag aca cag	448
Val Leu Gln Arg Lys Asn Leu Leu Ala Gln Glu Ser Val Glu Thr Gln	
110 115 120	
aac ttg aag ctg ggc agt gac atg gac cac ctg cag agc tgc tac gcc	496
Asn Leu Lys Leu Gly Ser Asp Met Asp His Leu Gln Ser Cys Tyr Ala	
125 130 135	

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aaa ctt aag gag cag ttg gaa acg tcc agg cgg gag atg atc ggg ctt	544
Lys Leu Lys Glu Gln Leu Glu Thr Ser Arg Arg Glu Met Ile Gly Leu	
140 145 150 155	
caa gag aga gac agg cag ctg cag tgc aag aac agg agt ttg cat cag	592
Gln Glu Arg Asp Arg Gln Leu Gln Cys Lys Asn Arg Ser Leu His Gln	
160 165 170	
ctc ctg aag aat gag aaa gat gag gta caa aaa tta caa aat atc ata	640
Leu Leu Lys Asn Glu Lys Asp Glu Val Gln Lys Leu Gln Asn Ile Ile	
175 180 185	
gcc agc cgg gct act cag tat aat cat gat gtg aag agg aag gag cgt	688
Ala Ser Arg Ala Thr Gln Tyr Asn His Asp Val Lys Arg Lys Glu Arg	
190 195 200	
gaa tat aat aag cta aag gag cgc ctg cat cag ctc gtt atg aac aag	736
Glu Tyr Asn Lys Leu Lys Glu Arg Leu His Gln Leu Val Met Asn Lys	
205 210 215	
aag gat aaa aac ata gcc atg gat gtt tta aat tat gtg ggt cga gct	784
Lys Asp Lys Asn Ile Ala Met Asp Val Leu Asn Tyr Val Gly Arg Ala	
220 225 230 235	

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gat ggc aaa cga ggc tca tgg agg act gac aaa aca gaa gcc agg aat	832
Asp Gly Lys Arg Gly Ser Trp Arg Thr Asp Lys Thr Glu Ala Arg Asn	
240 245 250	
gaa gat gag atg tac aaa att ctg ttg aat gat tat gag tac cgc cag	880
Glu Asp Glu Met Tyr Lys Ile Leu Leu Asn Asp Tyr Glu Tyr Arg Gln	
255 260 265	
aag cag atc ctg atg gag aac gcg gag ctg aag aag gtc ctc cag cag	928
Lys Gln Ile Leu Met Glu Asn Ala Glu Leu Lys Lys Val Leu Gln Gln	
270 275 280	
atg aag aag gag atg atc tct ctc ctg tct cct cag aag aag aag ccc	976
Met Lys Lys Glu Met Ile Ser Leu Leu Ser Pro Gln Lys Lys Lys Pro	
285 290 295	
agg gaa aga gca gag gac ggc aca ggc act gtt gct atc tcc gat ata	1024
Arg Glu Arg Ala Glu Asp Gly Thr Gly Thr Val Ala Ile Ser Asp Ile	
300 305 310 315	
gaa gat gac tct ggg gaa ctg agc aga gac agc gtg tgg ggc ctt tcc	1072
Glu Asp Asp Ser Gly Glu Leu Ser Arg Asp Ser Val Trp Gly Leu Ser	
320 325 330	

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tgt gac act gtg aga gag cag ctg aca aac agc atc agg aaa cag tgg Cys Asp Thr Val Arg Glu Gln Leu Thr Asn Ser Ile Arg Lys Gln Trp 335 340 345	1120
aga att ttg aaa agt cat gta gaa aaa ctc gat aac caa gct tcg aag Arg Ile Leu Lys Ser His Val Glu Lys Leu Asp Asn Gln Ala Ser Lys 350 355 360	1168
gta cac tca gag ggc ctt aat gag gag gac gtc atc tca cga caa gac Val His Ser Glu Gly Leu Asn Glu Glu Asp Val Ile Ser Arg Gln Asp 365 370 375	1216
cat gag caa gag act gag aaa ctg gag ctg gag att gag cgg tgt aaa His Glu Gln Glu Thr Glu Lys Leu Glu Leu Glu Ile Glu Arg Cys Lys 380 385 390 395	1264
gag atg atc aag gct cag cag cag ctc tta cag cag cag ctg gcc acc Glu Met Ile Lys Ala Gln Gln Gln Leu Leu Gln Gln Gln Leu Ala Thr 400 405 410	1312
acg tgt gat gat gac acc acc tca ctg ttg cga gac tgt tac ttg ctg Thr Cys Asp Asp Asp Thr Thr Ser Leu Leu Arg Asp Cys Tyr Leu Leu 415 420 425	1360

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gaa gaa aag gaa cgc ott aaa gaa gag tgg acc ctt ttt aaa gag caa	1408
Glu Glu Lys Glu Arg Leu Lys Glu Glu Trp Thr Leu Phe Lys Glu Gln	
430 435 440	
aaa aag aat ttt gag aga gaa agg cga agc ttt aca gaa gct gcc att	1456
Lys Lys Asn Phe Glu Arg Glu Arg Arg Ser Phe Thr Glu Ala Ala Ile	
445 450 455	
cga ttg ggg ttg gag aga aag gcg ttt gaa gaa gag cga gcc agc tgg	1504
Arg Leu Gly Leu Glu Arg Lys Ala Phe Glu Glu Glu Arg Ala Ser Trp	
460 465 470 475	
gta aag cag cag ttt tta aac atg acg aac ttt gac cac cag aac tca	1552
Val Lys Gln Gln Phe Leu Asn Met Thr Asn Phe Asp His Gln Asn Ser	
480 485 490	
gaa aat gtg aaa ctt ttc agt gcc ttc tca gga agt tct gat cca gac	1600
Glu Asn Val Lys Leu Phe Ser Ala Phe Ser Gly Ser Ser Asp Pro Asp	
495 500 505	
aat ctt ata gtc cac tca cgg cca cgg caa aag aag cta cac agt gtg	1648
Asn Leu Ile Val His Ser Arg Pro Arg Gln Lys Lys Leu His Ser Val	
510 515 520	

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gct aat ggg gtg cca gct tgc aca tca aaa ctg act aaa tot ctt cct	1696
Ala Asn Gly Val Pro Ala Cys Thr Ser Lys Leu Thr Lys Ser Leu Pro	
525 530 535	
gcc tca cct tct act tca gac ttt cgc cag aca cat tca tgt gtg tct	1744
Ala Ser Pro Ser Thr Ser Asp Phe Arg Gln Thr His Ser Cys Val Ser	
540 545 550 555	
gaa cac agt tcc atc agt gtg ctg aat ata act cct gaa gaa agt aaa	1792
Glu His Ser Ser Ile Ser Val Leu Asn Ile Thr Pro Glu Glu Ser Lys	
560 565 570	
cca agt gag gtt gca aga gaa agc acg gat cag aag tgg agc gtg cag	1840
Pro Ser Glu Val Ala Arg Glu Ser Thr Asp Gln Lys Trp Ser Val Gln	
575 580 585	
tcg agg ccc agc tcg cgg gag ggg tgc tac agc gga tgc tcc tcg gcc	1888
Ser Arg Pro Ser Ser Arg Glu Gly Cys Tyr Ser Gly Cys Ser Ser Ala	
590 595 600	

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ttc agg agc gct cac ggg gac cga gat gac tta cct taa atgtgcgggc	1937
Phe Arg Ser Ala His Gly Asp Arg Asp Asp Leu Pro	
605 610 615	
tgcatgtctg ttcccagatg tgcgctagag gagttgacac aggggtgtagc ataaagtcag	1997
tcgtctaact taagatgctc agagttgttt gtttggaactt cgctgtcttc ccccaaagag	2057
ctgaaatgct aagctactta aaaggatgca aagctttggt tgtgtgttag taacagaagc	2117
ccctggctct gtgactgcag gaatgcatgg cgtttggaag gaaacagaag cgctggaatg	2177
attgcctcgc caggtaaccga gaagagcact tttagggact ggttcctgta aacattaaat	2237
attcgcccc agtgtgggtg gcattggaag tgtagccttt acttgaatgt atactgtaga	2297
ttttaacaa agcaggttct atatttatta tgtttagtgt gattttggga ttacctcttt	2357
catatgtttt gtgtctgtac ataatatac atgactatgt taaggagctt taaggtttaa	2417
aaacttcaca coactgttga gtatagcatt tcatgccaat taaaatgttt tcagtggcat	2477

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gggtgtttaca gaggttagga ccactgccac atgacagtta agactttatt ttttaagccat 2537
ctgggcaata aaaattcaaa gcccttcat aagctgagtt cagataacta gaactactaa 2597
cgttacattt ttgagattt taaagcattg tattttattt tatatatgtg aatgttataa 2657
tttctaagag gaatattgat tatggagtaa tgggg 2692

<210> 2
<211> 615
<212> PRT
<213> Mus musculus

<400> 2

Met Gly Asp Trp Met Thr Val Thr Asp Pro Val Leu Cys Thr Glu Asn
1 5 10 15

Lys Asn Leu Ser Gln Tyr Thr Ser Glu Thr Lys Met Ser Pro Ser Ser
20 25 30

Leu Tyr Ser Gln Gln Val Leu Cys Ser Ser Val Pro Leu Ser Lys Asn
35 40 45

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Val His Gly Val Phe Gly Val Phe Cys Thr Gly Glu Asn Ile Glu Gln
50 55 60

Ser Ile Ser Tyr Leu Asp Gln Glu Leu Thr Thr Phe Gly Phe Pro Ser
65 70 75 80

Leu Tyr Glu Glu Ser Lys Ser Lys Glu Ala Lys Arg Glu Leu Asn Ile
85 90 95

Val Ala Val Leu Asn Cys Met Asn Glu Leu Leu Val Leu Gln Arg Lys
100 105 110

Asn Leu Leu Ala Gln Glu Ser Val Glu Thr Gln Asn Leu Lys Leu Gly
115 120 125

Ser Asp Met Asp His Leu Gln Ser Cys Tyr Ala Lys Leu Lys Glu Gln
130 135 140

Leu Glu Thr Ser Arg Arg Glu Met Ile Gly Leu Gln Glu Arg Asp Arg
145 150 155 160

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Gln Leu Gln Cys Lys Asn Arg Ser Leu His Gln Leu Leu Lys Asn Glu
165 170 175

Lys Asp Glu Val Gln Lys Leu Gln Asn Ile Ile Ala Ser Arg Ala Thr
180 185 190

Gln Tyr Asn His Asp Val Lys Arg Lys Glu Arg Glu Tyr Asn Lys Leu
195 200 205

Lys Glu Arg Leu His Gln Leu Val Met Asn Lys Lys Asp Lys Asn Ile
210 215 220

Ala Met Asp Val Leu Asn Tyr Val Gly Arg Ala Asp Gly Lys Arg Gly
225 230 235 240

Ser Trp Arg Thr Asp Lys Thr Glu Ala Arg Asn Glu Asp Glu Met Tyr
245 250 255

Lys Ile Leu Leu Asn Asp Tyr Glu Tyr Arg Gln Lys Gln Ile Leu Met
260 265 270

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Glu Asn Ala Glu Leu Lys Lys Val Leu Gln Gln Met Lys Lys Glu Met
275 280 285

Ile Ser Leu Leu Ser Pro Gln Lys Lys Lys Pro Arg Glu Arg Ala Glu
290 295 300

Asp Gly Thr Gly Thr Val Ala Ile Ser Asp Ile Glu Asp Asp Ser Gly
305 310 315 320

Glu Leu Ser Arg Asp Ser Val Trp Gly Leu Ser Cys Asp Thr Val Arg
325 330 335

Glu Gln Leu Thr Asn Ser Ile Arg Lys Gln Trp Arg Ile Leu Lys Ser
340 345 350

His Val Glu Lys Leu Asp Asn Gln Ala Ser Lys Val His Ser Glu Gly
355 360 365

Leu Asn Glu Glu Asp Val Ile Ser Arg Gln Asp His Glu Gln Glu Thr
370 375 380

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Glu Lys Leu Glu Leu Glu Ile Glu Arg Cys Lys Glu Met Ile Lys Ala
385 390 395 400

Gln Gln Gln Leu Leu Gln Gln Gln Leu Ala Thr Thr Cys Asp Asp Asp
405 410 415

Thr Thr Ser Leu Leu Arg Asp Cys Tyr Leu Leu Glu Glu Lys Glu Arg
420 425 430

Leu Lys Glu Glu Trp Thr Leu Phe Lys Glu Gln Lys Lys Asn Phe Glu
435 440 445

Arg Glu Arg Arg Ser Phe Thr Glu Ala Ala Ile Arg Leu Gly Leu Glu
450 455 460

Arg Lys Ala Phe Glu Glu Glu Arg Ala Ser Trp Val Lys Gln Gln Phe
465 470 475 480

Leu Asn Met Thr Asn Phe Asp His Gln Asn Ser Glu Asn Val Lys Leu
485 490 495

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Phe Ser Ala Phe Ser Gly Ser Ser Asp Pro Asp Asn Leu Ile Val His
500 505 510

Ser Arg Pro Arg Gln Lys Lys Leu His Ser Val Ala Asn Gly Val Pro
515 520 525

Ala Cys Thr Ser Lys Leu Thr Lys Ser Leu Pro Ala Ser Pro Ser Thr
530 535 540

Ser Asp Phe Arg Gln Thr His Ser Cys Val Ser Glu His Ser Ser Ile
545 550 555 560

Ser Val Leu Asn Ile Thr Pro Glu Glu Ser Lys Pro Ser Glu Val Ala
565 570 575

Arg Glu Ser Thr Asp Gln Lys Trp Ser Val Gln Ser Arg Pro Ser Ser
580 585 590

Arg Glu Gly Cys Tyr Ser Gly Cys Ser Ser Ala Phe Arg Ser Ala His
595 600 605

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Gly Asp Arg Asp Asp Leu Pro
610 615

<210> 3
<211> 3195
<212> DNA
<213> Rattus norvegicus

<220>
<221> CDS
<222> (79)..(1920)

<220>
<221> misc_feature
<222> (2422)..(2422)
<223> "n"=any one base of a, t, c, or g

<400> 3
gtaggagagt gacaggagct gttgtgcatg cccagcact gaactgcctt ctcagggacc 60

ctggctctgg gactggct atg gga gat tgg atg act gtt aca gat cca gtt 111
Met Gly Asp Trp Met Thr Val Thr Asp Pro Val
1 5 10

ctg tgt aca gaa aac aaa aat ctc tct caa tat acc tca gaa aca aag 159
Leu Cys Thr Glu Asn Lys Asn Leu Ser Gln Tyr Thr Ser Glu Thr Lys
15 20 25

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atg tct ccg tca agt tta tac tcg cag caa gta ctg tgc tct gca aca	207
Met Ser Pro Ser Ser Leu Tyr Ser Gln Gln Val Leu Cys Ser Ala Thr	
30 35 40	
cct tta tcc aag aat gtg cat ggt gtt ttc agt gcc ttc tgc aca gga	255
Pro Leu Ser Lys Asn Val His Gly Val Phe Ser Ala Phe Cys Thr Gly	
45 50 55	
gag aac atc gaa cag agt att tcg tat ctt gat cag gaa ctg act acc	303
Glu Asn Ile Glu Gln Ser Ile Ser Tyr Leu Asp Gln Glu Leu Thr Thr	
60 65 70 75	
ttc ggt ttc cct tcc ttg tat gaa gaa tcc aaa agt aag gag gcg aag	351
Phe Gly Phe Pro Ser Leu Tyr Glu Glu Ser Lys Ser Lys Glu Ala Lys	
80 85 90	
cga gag tta agt ata gtt gct ctt ctg aac tgc atg aat gag ctg ctt	399
Arg Glu Leu Ser Ile Val Ala Leu Leu Asn Cys Met Asn Glu Leu Leu	
95 100 105	
gtg ctt cag cgg aag aac ctc ctg gcc cag gaa agc gtg gag aca cag	447
Val Leu Gln Arg Lys Asn Leu Leu Ala Gln Glu Ser Val Glu Thr Gln	
110 115 120	
aat ctg aag ctg ggc agt gac atg gac cac ctg cag agc tgc tac gcc	495
Asn Leu Lys Leu Gly Ser Asp Met Asp His Leu Gln Ser Cys Tyr Ala	
125 130 135	

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aaa ctt aag gaa cag ttg gag gcc tcc agg cga gag atg atc agc ctt 543
Lys Leu Lys Glu Gln Leu Glu Ala Ser Arg Arg Glu Met Ile Ser Leu
140 145 150 155

Cag gag aga gac aga Cag cta cag tgc aaa aac agg aat ttg cat cag 591
Gln Glu Arg Asp Arg Gln Leu Gln Cys Lys Asn Arg Asn Leu His Gln
160 165 170

ctc ctg aaa aac gag aaa gaa gag gta caa aaa tta caa aat atc ata 639
Leu Leu Lys Asn Glu Lys Glu.Glu Val Gln Lys Leu Gln Asn Ile Ile
175 180 185

gcc agt cgg gct act cag tat aat cat gat gtg aag aga aag gag cgg 687
Ala Ser Arg Ala Thr Gln Tyr Asn His Asp Val Lys Arg Lys Glu Arg
190 195 200

gag tac aat aaa ctg aag gag cgt ctg cat cag ctt gtt atg aac aag 735
Glu Tyr Asn Lys Leu Lys Glu Arg Leu His Gln Leu Val Met Asn Lys
205 210 215

aag gat aaa aat ata gcc atg gac gtt tta aat tac gtg ggc cga gtg 783
Lys Asp Lys Asn Ile Ala Met Asp Val Leu Asn Tyr Val Gly Arg Val
220 225 230 235

gat gga aag cga ggc tcc tgg agg act gat aaa aca gaa gcc agg aat 831
Asp Gly Lys Arg Gly Ser Trp Arg Thr Asp Lys Thr Glu Ala Arg Asn
240 245 250

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gaa gat gaa atg tac aaa att ctg ctg aat gat tat gag tac cgc cag Glu Asp Glu Met Tyr Lys Ile Leu Leu Asn Asp Tyr Glu Tyr Arg Gln 255 260 265	879
aag cag atc ctg ctg gag aat gcg gag ctg aag aag gtc ctc cag cag Lys Gln Ile Leu Leu Glu Asn Ala Glu Leu Lys Lys Val Leu Gln Gln 270 275 280	927
atg aag aaa gag atg atc tct ctc ctt tct cct caa aag aag aaa ccc Met Lys Lys Glu Met Ile Ser Leu Leu Ser Pro Gln Lys Lys Lys Pro 285 290 295	975
aga gaa aga gca gag gac agc aca ggc act gtt gtc atc tcc gat gta Arg Glu Arg Ala Glu Asp Ser Thr Gly Thr Val Val Ile Ser Asp Val 300 305 310 315	1023
gaa gac gac gct ggg gag ctg agc aga gat ggt gtg tgg agc ctt tcc Glu Asp Asp Ala Gly Glu Leu Ser Arg Asp Gly Val Trp Ser Leu Ser 320 325 330	1071
tgt gac act gtc agg gag cag ctt aca aac agc atc agg aag cag tgg Cys Asp Thr Val Arg Glu Gln Leu Thr Asn Ser Ile Arg Lys Gln Trp 335 340 345	1119
aga att ctg aaa agc cat gtg gaa aaa ctt gat aac caa gct tca aag Arg Ile Leu Lys Ser His Val Glu Lys Leu Asp Asn Gln Ala Ser Lys 350 355 360	1167

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,364,876 B2
APPLICATION NO. : 10/644084
DATED : April 29, 2008
INVENTOR(S) : Takai et al.

Page 21 of 39

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

gta cac tca gag ggc ttt cat gaa gag gac gtc atc tca cga caa gac Val His Ser Glu Gly Phe His Glu Glu Asp Val Ile Ser Arg Gln Asp 365 370 375	1215
cat gag caa gag act gag aaa ctg gag ctg gag att gag cgg tgt aaa His Glu Gln Glu Thr Glu Lys Leu Glu Leu Glu Ile Glu Arg Cys Lys 380 385 390 395	1263
gag atg atc aag gct cag cag cag ctc tta cag caa cag ctg gcc act Glu Met Ile Lys Ala Gln Gln Gln Leu Glu Gln Gln Leu Ala Thr 400 405 410	1311
gcg tgt gat gac gac acc acc tca ctg ttg cga gac tgt tac ttg ctt Ala Cys Asp Asp Asp Thr Thr Ser Leu Leu Arg Asp Cys Tyr Leu Leu 415 420 425	1359
gaa gaa aag gaa cgc ctt aaa gaa gag tgg tcc ctt ttt aaa gag caa Glu Glu Lys Glu Arg Leu Lys Glu Glu Trp Ser Leu Phe Lys Glu Gln 430 435 440	1407
aaa aag aat ttt gag aga gaa aga cga agc ttt aca gaa gct gct att Lys Lys Asn Phe Glu Arg Glu Arg Arg Ser Phe Thr Glu Ala Ala Ile 445 450 455	1455
cgc ttg ggg ttg gag aga aag gcg ttt gag gaa gag cga gcc agc tgg Arg Leu Gly Leu Glu Arg Lys Ala Phe Glu Glu Glu Arg Ala Ser Trp 460 465 470 475	1503

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,364,876 B2
APPLICATION NO. : 10/644084
DATED : April 29, 2008
INVENTOR(S) : Takai et al.

Page 22 of 39

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

gtg aag cag cag ttt tta aac atg acg acc ttt gat cac cag aac tca Val Lys Gln Gln Phe Leu Asn Met Thr Thr Phe Asp His Gln Asn Ser 480 485 490	1551
gaa aat gtg aaa ctt ttc agt gcc ttt tca gga agt tct gat cca gac Glu Asn Val Lys Leu Phe Ser Ala Phe Ser Gly Ser Ser Asp Pro Asp 495 500 505	1599
aat ctt ata gtc cac cca cgg cca cgg caa aag aag cca cac agt gtc Asn Leu Ile Val His Pro Arg Pro Arg Gln Lys Lys Pro His Ser Val 510 515 520	1647
gct aat ggg gtg cca gct tgc aca tcc aaa ctg gct aag tct ctt ccg Ala Asn Gly Val Pro Ala Cys Thr Ser Lys Leu Ala Lys Ser Leu Pro 525 530 535	1695
acc tca cct tca gac ttc tgc ccg tct cgc tca tgt gtg tct gag cac Thr Ser Pro Ser Asp Phe Cys Pro Ser Arg Ser Cys Val Ser Glu His 540 545 550 555	1743
agt ccc gtc agt gcg ctg act gtg act cct gaa gaa acc aaa ccg aat Ser Pro Val Ser Ala Leu Thr Val Thr Pro Glu Glu Thr Lys Pro Asn 560 565 570	1791
gag gtt gga aga gaa agt acg gac cag aag tgg agc gtg gtg tcc aga Glu Val Gly Arg Glu Ser Thr Asp Gln Lys Trp Ser Val Val Ser Arg 575 580 585	1839

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,364,876 B2
APPLICATION NO. : 10/644084
DATED : April 29, 2008
INVENTOR(S) : Takai et al.

Page 23 of 39

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

```
ccc agc tcc cgg gag ggt tgc tac ggt gga tgc tcc tgc gcc tac aca 1887
Pro Ser Ser Arg Glu Gly Cys Tyr Gly Gly Cys Ser Ser Ala Tyr Thr
      590                595                600

agc tcc cac gtg gaa cga gat gac tta cca tag gtgctcgggc tgcagcgctg 1940
Ser Ser His Val Glu Arg Asp Asp Leu Pro
      605                610

tcctggagtg catgagagga attgacacgg ggtgtagcat aaagtcagcc atctaccgta 2000

agatgtcgga gttatttggt tggacttccc agtctttccc caaagagctg aaacgcttta 2060

gaggatgcga aagctttggc tgtgtgttag taacagaagc ctctggctct gtgagtaaag 2120

gaatgtatgg tgtttggtgg gaaacaaaag cagcagaatg atttctcttt ccgggtactg 2180

agaatagcac ttttagggac tgattcttgt aaacattaaa tttttgtccc aagtatgggt 2240

ggcattggaa gtttagtctt tacttgaatg tacactgtag atttttaaca aagcagttct 2300

atatttatta tgtttagtgt gattttggga ttacctcttt catatgtttt ctgcctgtac 2360

ataaatatac atgactatgt taagaggcct taagggttaa aaatttcaca ccatgctcga 2420

gnatagcatt tcatgccaat taaaatgttt tcagtggcat ggtgtttaca gatgtgttag 2480
```

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,364,876 B2
APPLICATION NO. : 10/644084
DATED : April 29, 2008
INVENTOR(S) : Takai et al.

Page 24 of 39

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

```
gaccactgcc acatgacagt taagatttta tttttaagcc atttgggcaa taaaaattca 2540
aagccacttc ataagctaag ttcagatagc taaaactact aacattacat ttttgagatt 2600
tataaagcat tatattttat tttatatatg tgactgttat aatttctaag aggaatgtgg 2660
attatgaagc aatgggggaa agacagaagt gactaatagt gcaagagcat tgggtgaagg 2720
gacggctgat gaggatatgg gagacctggg tggatgattt ttccttaccg acggtgcggt 2780
gcggcgatct ctgtaccgcc agggctttct atcattgcc aacttttgt aattaaagag 2840
attttcaact acataccact actaaagtaa gacagtgtaa aactttggct tttgtaattg 2900
acactctgga cactgggtgtg ttgttcattt ctagaacaat cgtaggetct tttctctgtt 2960
tgtctgcat gtttcttcat gagaagtatg ttactattga cagtaatgac actgacagtg 3020
actgtagacg tagggccaga ottctcctgg gtggatttcc atccagcagc ttttaagtgc 3080
ctcgccctgc tcgtctctgc acatagccgc cgacacaagc cctcgcttga tgatgcagat 3140
agtccatctg cctttctctc cccttgcct gctatgactg ttgcattaaa ttcac 3195
```


UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,364,876 B2
APPLICATION NO. : 10/644084
DATED : April 29, 2008
INVENTOR(S) : Takai et al.

Page 25 of 39

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

<210> 4
<211> 613
<212> PRT
<213> Rattus norvegicus

<400> 4

Met Gly Asp Trp Met Thr Val Thr Asp Pro Val Leu Cys Thr Glu Asn
1 5 10 15

Lys Asn Leu Ser Gln Tyr Thr Ser Glu Thr Lys Met Ser Pro Ser Ser
20 25 30

Leu Tyr Ser Gln Gln Val Leu Cys Ser Ala Thr Pro Leu Ser Lys Asn
35 40 45

Val His Gly Val Phe Ser Ala Phe Cys Thr Gly Glu Asn Ile Glu Gln
50 55 60

Ser Ile Ser Tyr Leu Asp Gln Glu Leu Thr Thr Phe Gly Phe Pro Ser
65 70 75 80

Leu Tyr Glu Glu Ser Lys Ser Lys Glu Ala Lys Arg Glu Leu Ser Ile
85 90 95

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,364,876 B2
APPLICATION NO. : 10/644084
DATED : April 29, 2008
INVENTOR(S) : Takai et al.

Page 26 of 39

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Val Ala Leu Leu Asn Cys Met Asn Glu Leu Leu Val Leu Gln Arg Lys
100 105 110

Asn Leu Leu Ala Gln Glu Ser Val Glu Thr Gln Asn Leu Lys Leu Gly
115 120 125

Ser Asp Met Asp His Leu Gln Ser Cys Tyr Ala Lys Leu Lys Glu Gln
130 135 140

Leu Glu Ala Ser Arg Arg Glu Met Ile Ser Leu Gln Glu Arg Asp Arg
145 150 155 160

Gln Leu Gln Cys Lys Asn Arg Asn Leu His Gln Leu Leu Lys Asn Glu
165 170 175

Lys Glu Glu Val Gln Lys Leu Gln Asn Ile Ile Ala Ser Arg Ala Thr
180 185 190

Gln Tyr Asn His Asp Val Lys Arg Lys Glu Arg Glu Tyr Asn Lys Leu
195 200 205

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,364,876 B2
APPLICATION NO. : 10/644084
DATED : April 29, 2008
INVENTOR(S) : Takai et al.

Page 27 of 39

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Lys Glu Arg Leu His Gln Leu Val Met Asn Lys Lys Asp Lys Asn Ile
210 215 220

Ala Met Asp Val Leu Asn Tyr Val Gly Arg Val Asp Gly Lys Arg Gly
225 230 235 240

Ser Trp Arg Thr Asp Lys Thr Glu Ala Arg Asn Glu Asp Glu Met Tyr
245 250 255

Lys Ile Leu Leu Asn Asp Tyr Glu Tyr Arg Gln Lys Gln Ile Leu Leu
260 265 270

Glu Asn Ala Glu Leu Lys Lys Val Leu Gln Gln Met Lys Lys Glu Met
275 280 285

Ile Ser Leu Leu Ser Pro Gln Lys Lys Lys Pro Arg Glu Arg Ala Glu
290 295 300

Asp Ser Thr Gly Thr Val Val Ile Ser Asp Val Glu Asp Asp Ala Gly
305 310 315 320

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,364,876 B2
APPLICATION NO. : 10/644084
DATED : April 29, 2008
INVENTOR(S) : Takai et al.

Page 28 of 39

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Glu Leu Ser Arg Asp Gly Val Trp Ser Leu Ser Cys Asp Thr Val Arg
325 330 335

Glu Gln Leu Thr Asn Ser Ile Arg Lys Gln Trp Arg Ile Leu Lys Ser
340 345 350

His Val Glu Lys Leu Asp Asn Gln Ala Ser Lys Val His Ser Glu Gly
355 360 365

Phe His Glu Glu Asp Val Ile Ser Arg Gln Asp His Glu Gln Glu Thr
370 375 380

Glu Lys Leu Glu Leu Glu Ile Glu Arg Cys Lys Glu Met Ile Lys Ala
385 390 395 400

Gln Gln Gln Leu Leu Gln Gln Gln Leu Ala Thr Ala Cys Asp Asp Asp
405 410 415

Thr Thr Ser Leu Leu Arg Asp Cys Tyr Leu Leu Glu Glu Lys Glu Arg
420 425 430

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,364,876 B2
APPLICATION NO. : 10/644084
DATED : April 29, 2008
INVENTOR(S) : Takai et al.

Page 29 of 39

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Leu Lys Glu Glu Trp Ser Leu Phe Lys Glu Gln Lys Lys Asn Phe Glu
435 440 445

Arg Glu Arg Arg Ser Phe Thr Glu Ala Ala Ile Arg Leu Gly Leu Glu
450 455 460

Arg Lys Ala Phe Glu Glu Glu Arg Ala Ser Trp Val Lys Gln Gln Phe
465 470 475 480

Leu Asn Met Thr Thr Phe Asp His Gln Asn Ser Glu Asn Val Lys Leu
485 490 495

Phe Ser Ala Phe Ser Gly Ser Ser Asp Pro Asp Asn Leu Ile Val His
500 505 510

Pro Arg Pro Arg Gln Lys Lys Pro His Ser Val Ala Asn Gly Val Pro
515 520 525

Ala Cys Thr Ser Lys Leu Ala Lys Ser Leu Pro Thr Ser Pro Ser Asp
530 535 540

PATENT NO. : 7,364,876 B2
APPLICATION NO. : 10/644084
DATED : April 29, 2008
INVENTOR(S) : Takai et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

<210>	5
<211>	22
<212>	DNA
<213>	Artificial Sequence

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,364,876 B2
APPLICATION NO. : 10/644084
DATED : April 29, 2008
INVENTOR(S) : Takai et al.

Page 31 of 39

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

<220>

<223> an artificially synthesized primer sequence

<400> 5

cgtaggagag tgacaggagc tg

22

<210> 6

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> an artificially synthesized primer sequence

<400> 6

ggttatcgag tttttctaca tgac

24

<210> 7

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> an artificially synthesized primer sequence

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,364,876 B2
APPLICATION NO. : 10/644084
DATED : April 29, 2008
INVENTOR(S) : Takai et al.

Page 32 of 39

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

<400> 7
cgtaggagag tgacaggagc tg

22

<210> 8
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> an artificially synthesized primer sequence

<400> 8
ttcctgtttt tgcactgtag ctg

23

<210> 9
<211> 626
<212> PRT
<213> Homo sapiens

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,364,876 B2
APPLICATION NO. : 10/644084
DATED : April 29, 2008
INVENTOR(S) : Takai et al.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

<400> 9

Thr Ser Ser Ser Gly Ile Leu Ala Leu Glu Ile Ala Met Gly Asp Trp
1 5 10 15

Met Thr Val Thr Asp Pro Gly Leu Ser Ser Glu Ser Lys Thr Ile Ser
20 25 30

Gln Tyr Thr Ser Glu Thr Lys Met Ser Pro Ser Ser Leu Tyr Ser Gln
35 40 45

Gln Val Leu Cys Ser Ser Ile Pro Leu Ser Lys Asn Val His Ser Phe
50 55 60

Phe Ser Ala Phe Cys Thr Glu Asp Asn Ile Glu Gln Ser Ile Ser Tyr
65 70 75 80

Leu Asp Gln Glu Leu Thr Thr Phe Gly Phe Pro Ser Leu Tyr Glu Glu
85 90 95

Ser Lys Gly Lys Glu Thr Lys Arg Glu Leu Asn Ile Val Ala Val Leu
100 105 110

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,364,876 B2
APPLICATION NO. : 10/644084
DATED : April 29, 2008
INVENTOR(S) : Takai et al.

Page 34 of 39

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Asn Cys Met Asn Glu Leu Leu Val Leu Gln Arg Lys Asn Leu Leu Ala
115 120 125

Gln Glu Asn Val Glu Thr Gln Asn Leu Lys Leu Gly Ser Asp Met Asp
130 135 140

His Leu Gln Ser Cys Tyr Ser Lys Leu Lys Glu Gln Leu Glu Thr Ser
145 150 155 160

Arg Arg Glu Met Ile Gly Leu Gln Glu Arg Asp Arg Gln Leu Gln Cys
165 170 175

Lys Asn Arg Asn Leu His Gln Leu Leu Lys Asn Glu Lys Asp Glu Val
180 185 190

Gln Lys Leu Gln Asn Ile Ile Ala Ser Arg Ala Thr Gln Tyr Asn His
195 200 205

Asp Met Lys Arg Lys Glu Arg Glu Tyr Asn Lys Leu Lys Glu Arg Leu
210 215 220

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,364,876 B2
APPLICATION NO. : 10/644084
DATED : April 29, 2008
INVENTOR(S) : Takai et al.

Page 35 of 39

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

His Gln Leu Val Met Asn Lys Lys Asp Lys Lys Ile Ala Met Asp Ile
225 230 235 240

Leu Asn Tyr Val Gly Arg Ala Asp Gly Lys Arg Gly Ser Trp Arg Thr
245 250 255

Gly Lys Thr Glu Ala Arg Asn Glu Asp Glu Met Tyr Lys Ile Leu Leu
260 265 270

Asn Asp Tyr Glu Tyr Arg Gln Lys Gln Ile Leu Met Glu Asn Ala Glu
275 280 285

Leu Lys Lys Val Leu Gln Gln Met Lys Lys Glu Met Ile Ser Leu Leu
290 295 300

Ser Pro Gln Lys Lys Lys Pro Arg Glu Arg Val Asp Asp Ser Thr Gly
305 310 315 320

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,364,876 B2
APPLICATION NO. : 10/644084
DATED : April 29, 2008
INVENTOR(S) : Takai et al.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Thr Val Ile Ser Asp Val Glu Glu Asp Ala Gly Glu Leu Ser Arg Glu
325 330 335

Ser Met Trp Asp Leu Ser Cys Glu Thr Val Arg Glu Gln Leu Thr Asn
340 345 350

Ser Ile Arg Lys Gln Trp Arg Ile Leu Lys Ser His Val Glu Lys Leu
355 360 365

Asp Asn Gln Val Ser Lys Val His Leu Glu Gly Phe Asn Asp Glu Asp
370 375 380

Val Ile Ser Arg Gln Asp His Glu Gln Glu Thr Glu Lys Leu Glu Leu
385 390 395 400

Glu Ile Gln Gln Cys Lys Glu Met Ile Lys Thr Gln Gln Gln Leu Leu
405 410 415

Gln Gln Gln Leu Ala Thr Ala Tyr Asp Asp Asp Thr Thr Ser Leu Leu
420 425 430

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,364,876 B2
APPLICATION NO. : 10/644084
DATED : April 29, 2008
INVENTOR(S) : Takai et al.

Page 37 of 39

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Arg Asp Cys Tyr Leu Leu Glu Glu Lys Glu Arg Leu Lys Glu Glu Trp
435 440 445

Ser Leu Phe Lys Glu Gln Lys Lys Asn Phe Glu Arg Glu Arg Arg Ser
450 455 460

Phe Thr Glu Ala Ala Ile Arg Leu Gly Leu Glu Arg Lys Ala Phe Glu
465 470 475 480

Glu Glu Arg Ala Ser Trp Leu Lys Gln Gln Phe Leu Asn Met Thr Thr
485 490 495

Phe Asp His Gln Asn Ser Glu Asn Val Lys Leu Phe Ser Ala Phe Ser
500 505 510

Gly Ser Ser Asp Trp Asp Asn Leu Ile Val His Ser Arg Gln Pro Gln
515 520 525

Lys Lys Pro His Ser Val Ser Asn Gly Ser Pro Val Cys Met Ser Lys
530 535 540

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,364,876 B2
APPLICATION NO. : 10/644084
DATED : April 29, 2008
INVENTOR(S) : Takai et al.

Page 38 of 39

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Leu Thr Lys Ser Leu Pro Ala Ser Pro Ser Thr Ser Asp Phe Cys Gln
545 550 555 560

Thr Arg Ser Cys Ile Ser Glu His Ser Ser Ile Asn Val Leu Asn Ile
565 570 575

Thr Ala Glu Glu Ile Lys Pro Asn Gln Val Gly Gly Glu Cys Thr Asn
580 585 590

Gln Lys Trp Ser Val Ala Ser Arg Pro Gly Ser Gln Glu Gly Cys Tyr
595 600 605

Ser Gly Cys Ser Leu Ser Tyr Thr Asn Ser His Val Glu Lys Asp Asp
610 615 620

Leu Pro
625

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,364,876 B2
APPLICATION NO. : 10/644084
DATED : April 29, 2008
INVENTOR(S) : Takai et al.

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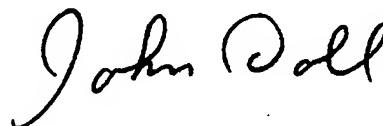
It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In claim 3, at column 53, line 22, please delete "claim 1" and insert therefor --claim 2--.

In claim 4, at column 54, line 17, please delete "supematant" and insert therefor --supernatant--.

Signed and Sealed this

Twenty-fourth Day of February, 2009



JOHN DOLL

Acting Director of the United States Patent and Trademark Office